

4.2.A. 0604000501 (Tennessee River).

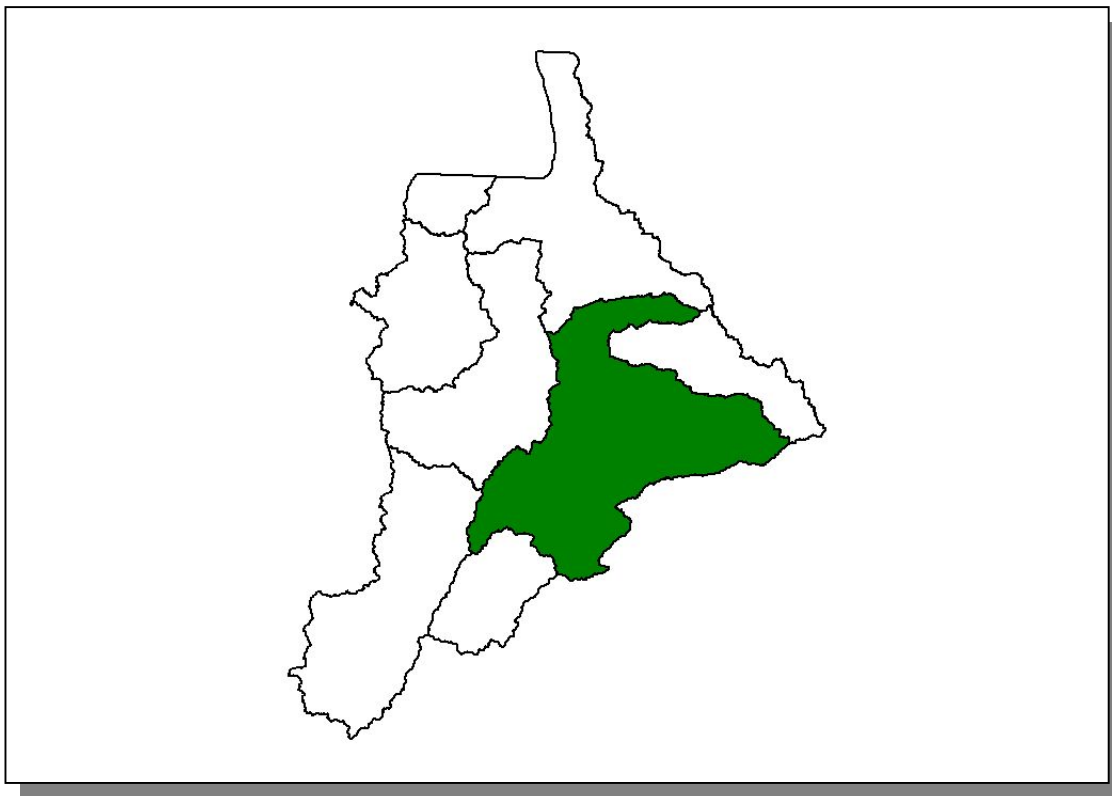


Figure 4-2. Location of Subwatershed 0604000501. All Tennessee Western Valley (KY Lake) HUC-10 subwatershed boundaries in Tennessee are shown for reference.

4.2.A.i. General Description.

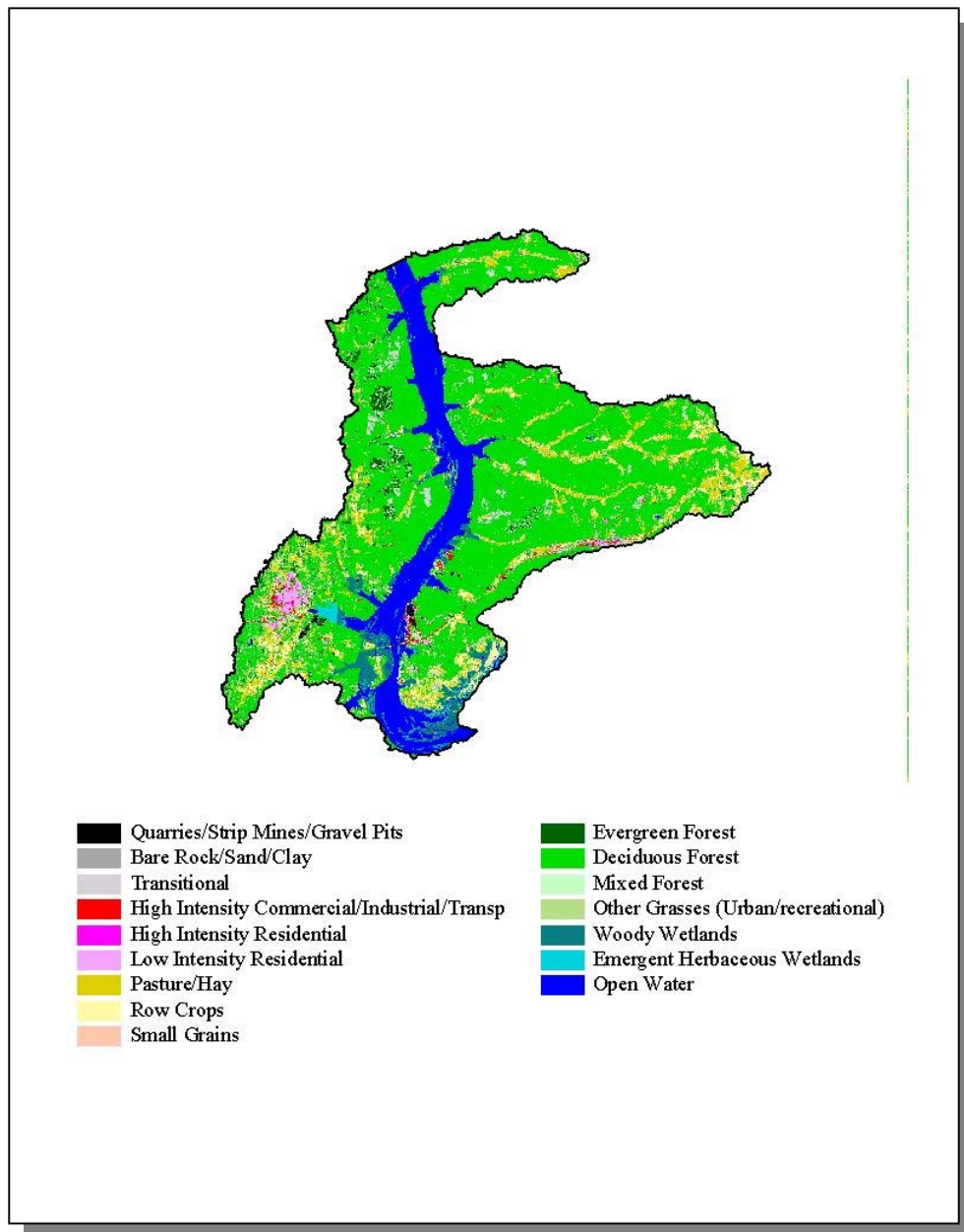


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0604000501.

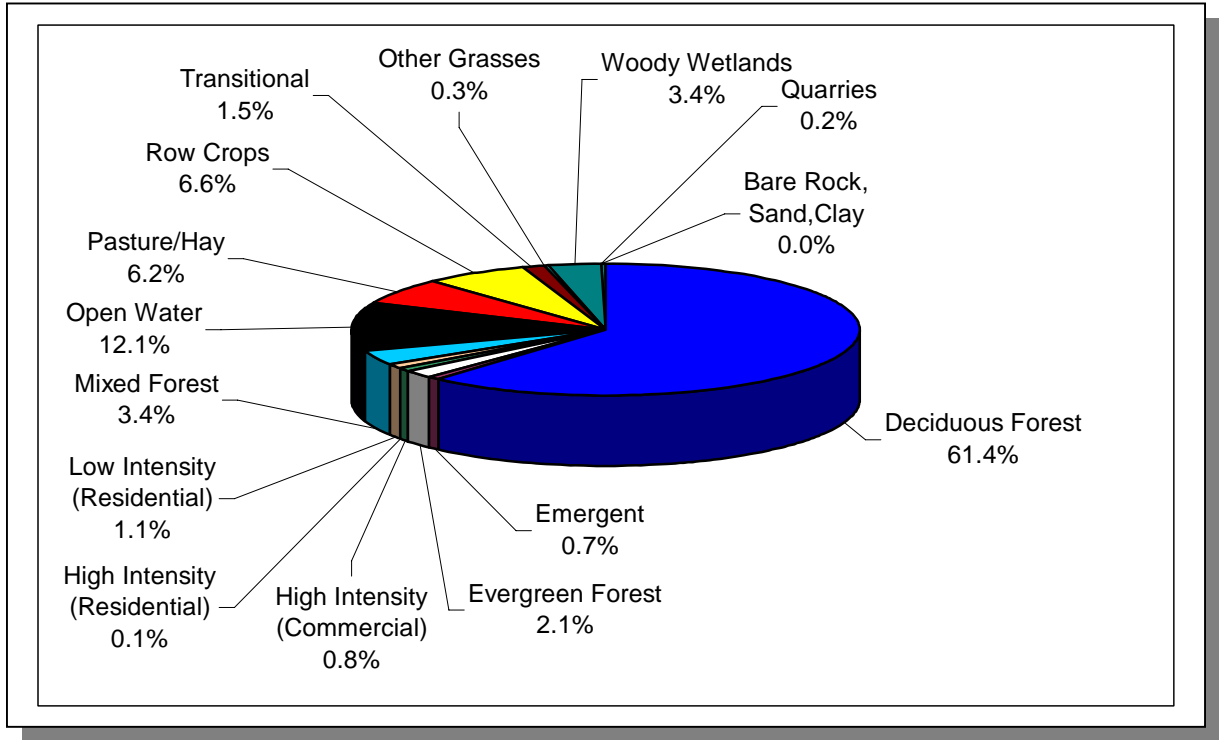


Figure 4-4. Land Use Distribution in Subwatershed 0604000501. More information is provided in Appendix IV.

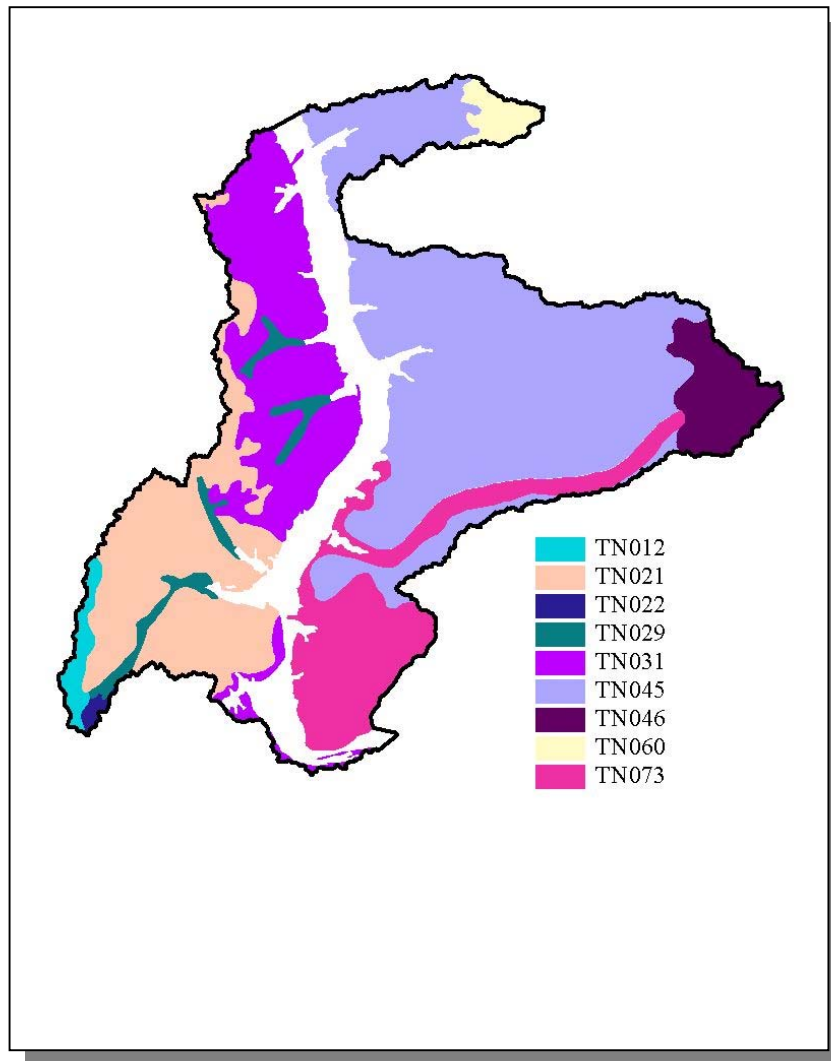


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000501.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN012	3.00	C	2.52	5.13	Silty Loam	0.39
TN021	15.00	C	1.30	5.00	Silty Loam	0.43
TN022	20.00	C	1.98	5.07	Loam	0.37
TN029	32.00	C	2.96	5.40	Loam	0.33
TN031	0.00	C	3.27	4.88	Loam	0.33
TN045	0.00	B	1.95	5.45	Loam	0.35
TN046	0.00	B	1.98	5.09	Silty Loam	0.38
TN060	20.00	B	1.30	5.32	Silty Loam	0.39
TN073	0.00	B	2.97	5.21	Loam	0.34

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0604000501. More details are provided in Appendix IV.

County	COUNTY POPULATION			Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED			% Change (1990-1997)
	1990	1997	2000		1990	1997	2000	
Benton	14,524	16,243	16,537	37.24	5,408	6,049	6,158	13.9
Houston	7,018	7,769	8,088	14.32	1,005	1,113	1,159	15.3
Humphreys	15,795	16,839	17,929	35.56	5,616	5,987	6,375	13.5
Stewart	9,479	11,241	12,370	0.11	10	12	13	30.0
Totals	46,816	52,092	54,924		12,039	13,161	13,705	13.8

Table 4-3. Population Estimates in Subwatershed 0604000501.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
Camden	Benton	3,643	1,667	1,422	245	0
McEwen	Humphreys	1,442	632	561	71	0
New Johnsonville	Humphreys	1,643	680	507	167	6
Tennessee Ridge	Houston	1,271	499	117	377	5
Waverly	Humphreys	3,925	1,787	1,471	304	12
Totals		11,924	5,265	4,078	1,164	23

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0604000501.

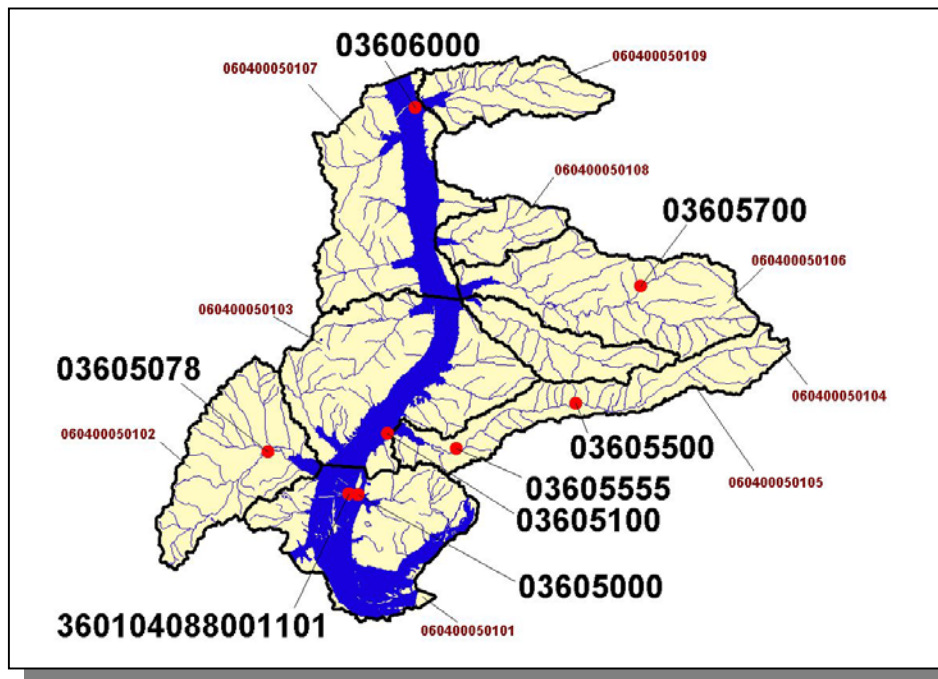


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information is provided in Appendix IV.

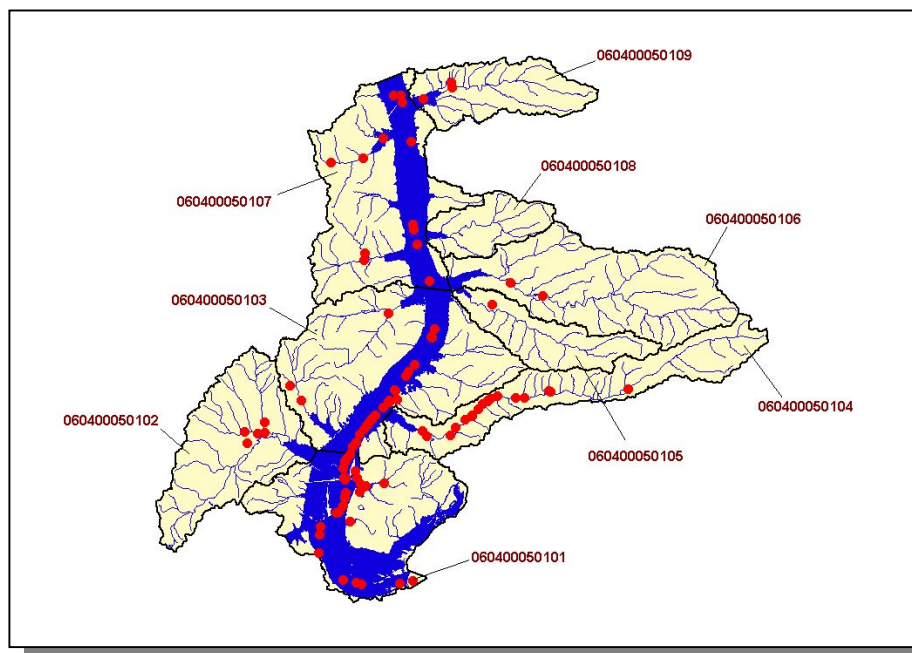


Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including site names and locations, is provided in Appendix IV.

4.2.A.ii Point Source Contributions.

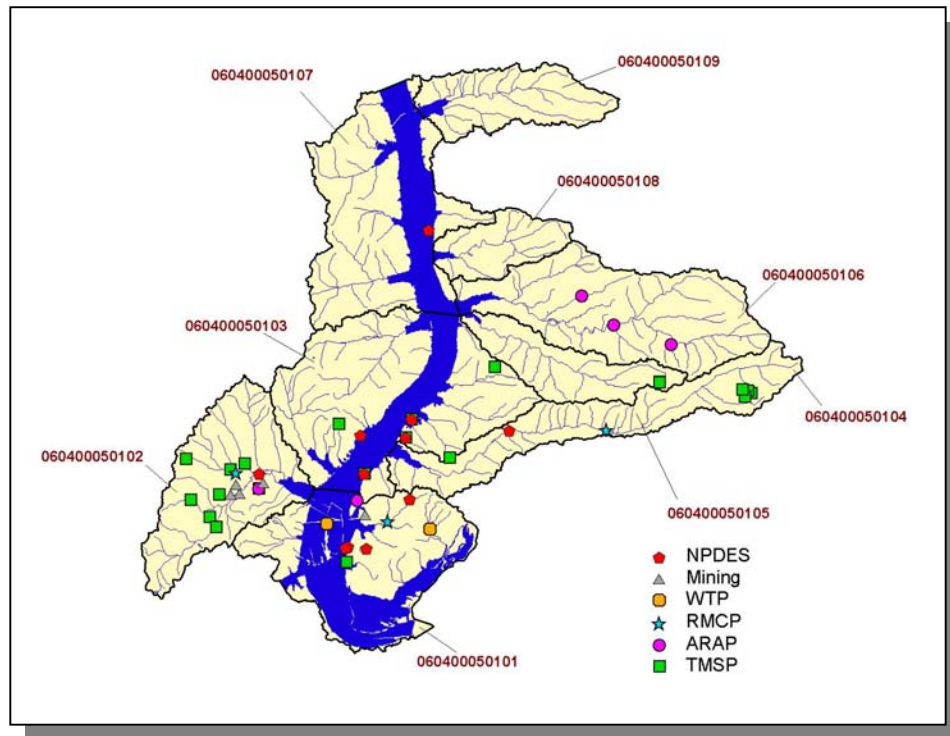


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

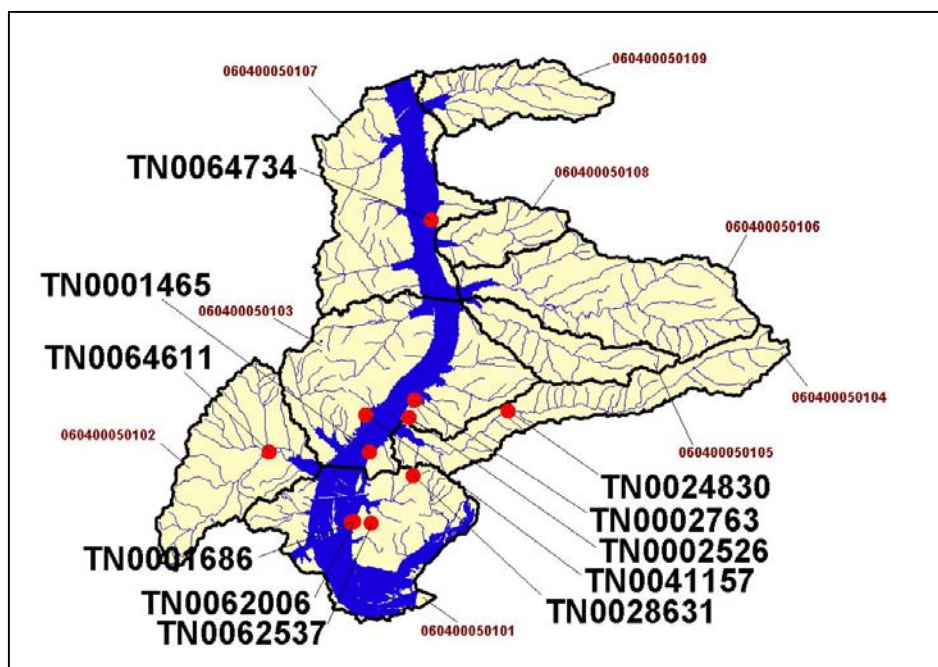


Figure 4-9. Location of NPDES Facilities in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

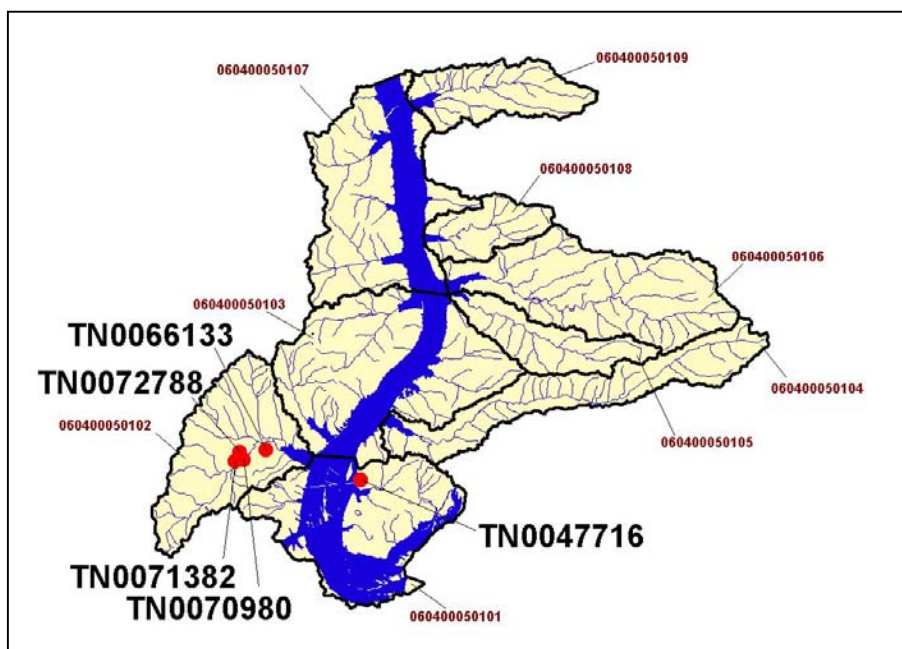


Figure 4-10. Location of Active Mining Facilities in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

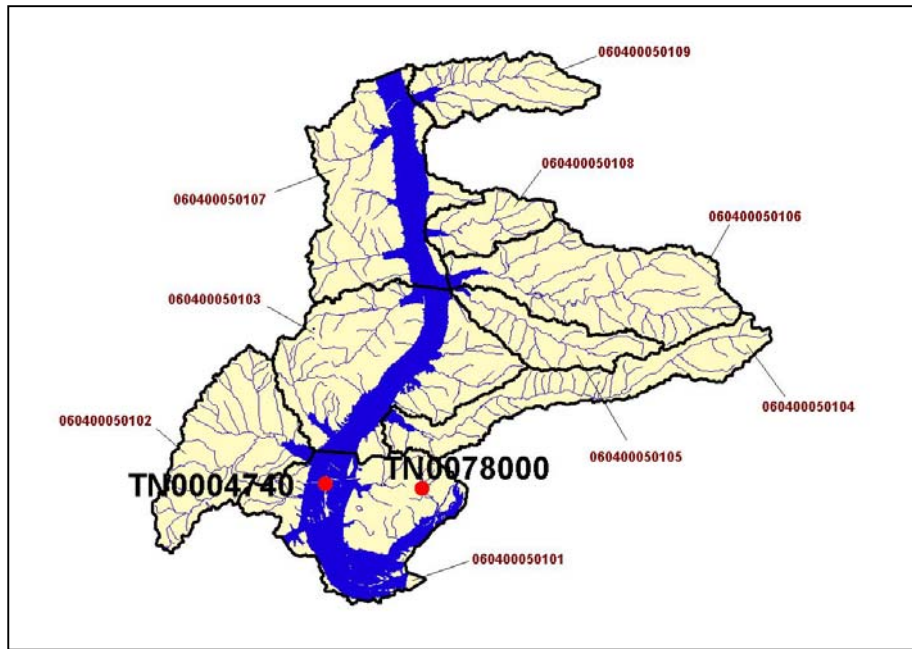


Figure 4-11. Location of Water Treatment Plants in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

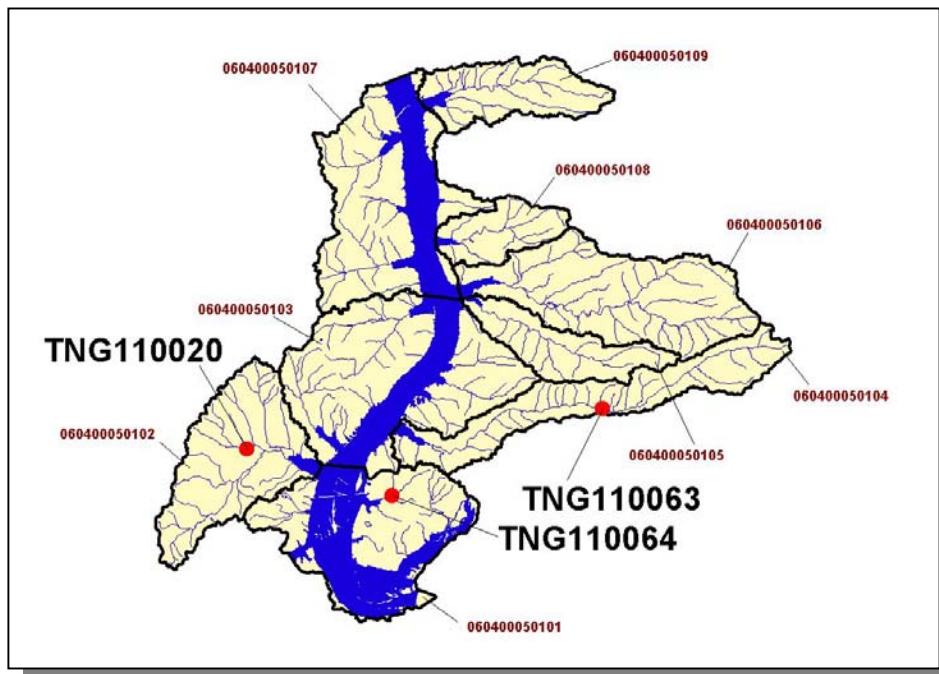


Figure 4-12. Location of Ready Mix Concrete Plants in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

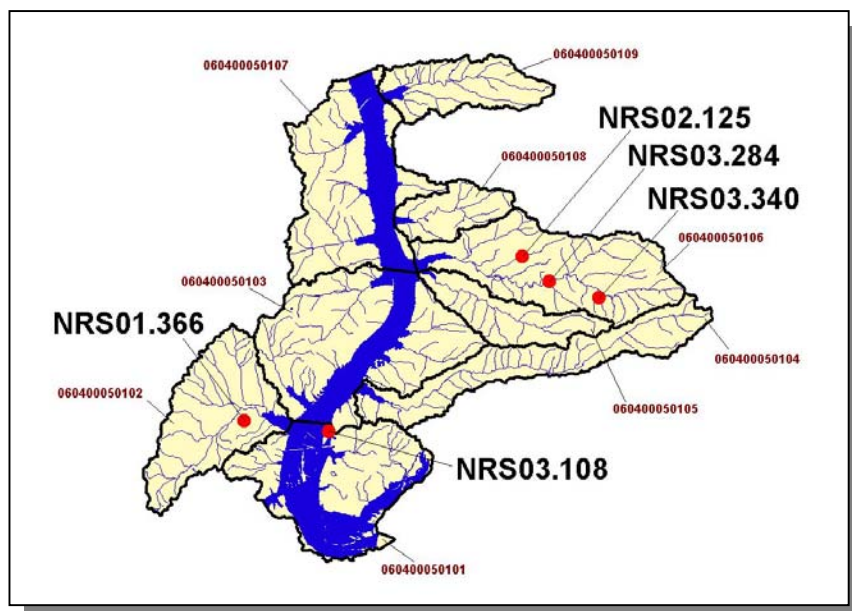


Figure 4-13. Location of ARAP Sites (Individual Permits) in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

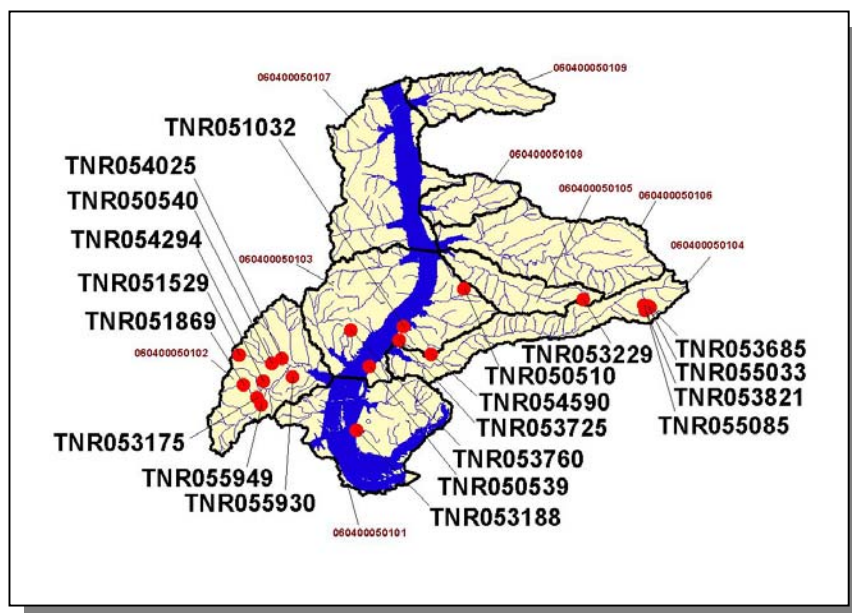


Figure 4-14. Location of TMSP Facilities in Subwatershed 0604000501. Subwatershed 060400050101, 060400050102, 060400050103, 060400050104, 060400050105, 060400050106, 060400050107, 060400050108, and 060400050109 boundaries are shown for reference. More information, including the names of facilities, is provided in Appendix IV.

4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens (Layers)	Chickens Sold	Hogs	Sheep
3,682	8,418	100	14	<5	734	<5

Table 4-5. Summary of Livestock Count Estimates in Subwatershed 0604000501. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Benton	172.7	172.7	2.1	6.9
Houston	94.2	94.2	0	0
Humphreys	241.2	241.2	3.7	14.4
Stewart	219.7	219.7	5.4	25.4
Total	727.8	727.8	11.2	46.7

Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0604000501.

CROPS	TONS/ACRE/YEAR
Grass (Pastureland)	0.90
Grass (Hayland)	0.24
Legumes (Hayland)	1.37
Legumes, Grass (Hayland)	0.12
Grass, Forbs, Legumes (Mixed Pasture)	0.79
Forest Land (Not Grazed)	0.00
Forest Land (Grazed)	0.00
Corn (Row Crops)	15.20
Sorghum (Row Crops)	5.80
Soybeans (Row Crops)	14.46
Tobacco (Row Crops)	6.01
Other Cropland not Planted	0.62
Conservation Reserve Program Lands	0.19
Other Land in Farms	0.05
Farmsteads and Ranch Headquarters	0.46

Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 0604000501.